

Notice of Allowability

Application No.

10/709,528

Applicant(s)

STAUFFER ET AL.

Examiner

Art Unit

Suchin Parihar

2825

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 4/23/2007.
2. ☒ The allowed claim(s) is/are 1-6, 8-12, 14-19 and 21-23.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date same as OA.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


JACK CHIANG
SUPERVISORY PATENT EXAMINER

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Spencer K. Warnick (Reg.# 40,398) on Monday 6/18/2007.

2. The application has been amended as follows:

In the Claims

In claim 1:

line 6, replace "the core/pin rule including pin class rules" with - -the core/pin rule defining a class of each pin- -.

line 9, replace "based on the pin class rules" with - -based on the definition of the class of each pin- -.

In claim 8:

line 6, replace "the core/pin rule including pin class rules" with - -the core/pin rule defining a class of each pin- -.

line 9, replace "based on the pin class rules" with - -based on the definition of the class of each pin- -.

In claim 14:

line 9, replace "the core/pin rule including pin class rules" with - -the core/pin rule defining a class of each pin- -.

line 11, replace "based on the pin class rules" with - -based on the definition of the class of each pin- -.

(Amendment was made in order to place this application into a condition for allowance)

Reasons For Allowance

3. The following is an examiner's statement of reasons for allowance:

Claims 1-6, 8-12, 14-19 and 21-23 are allowed because the prior art made of record does not teach or suggest a method/system/computer-medium building an automated datapath system generating tool for a datapath system including bit-sliced data between at least one source stage and at least one subsequent stage that are connected across a channel in the manner as recited in the claims.

4. With respect to claims 1-6, 8-12, 14-19 and 21-23, the prior art fails to teach the combination of steps in claims 1, 8 and 14 including the following particular steps as recited in claim 1 and as similarly recited in claims 8 and 14:

constructing class-type inference rules based on the definition of the class of each pin for automatically generating the datapath system, each class-type inference rule executing at least one primitive function;

wherein the pin attributes include a class and a channel of the pin, and the core/pin rule generating includes bundling pins based on the class attributes and the channel attributes thereof, respectively, the bundling based on the class attributes being orthogonal to the bundling based on the channel attributes.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suchin Parihar whose telephone number is 571-272-6210. The examiner can normally be reached on Mon-Fri, 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on 571-272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

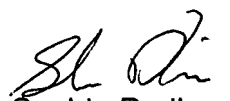
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO

Application/Control Number: 10/709,528

Page 5

Art Unit: 2825

Customer Service Representative or access to the automated information system, call
800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Suchin Parihar
Examiner
AU 2825



JACK CHIANG
SUPERVISORY PATENT EXAMINER